


X-RAY IMAGE PICKUP DEVICE

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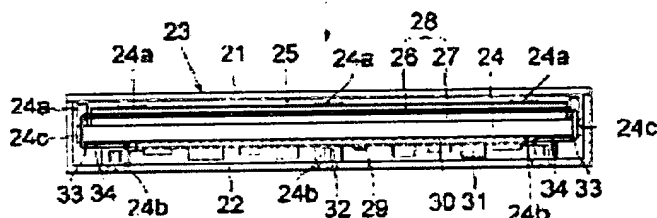
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Abstract of JP2002131437

PROBLEM TO BE SOLVED: To obtain a portable X-ray image pickup device which has a thin thickness, light weight, high withstand load, high impact resistance, high vibration resistance, and high heat radiation resisting characteristic.

SOLUTION: A box-shaped enclosure 23 composed of an upper enclosure 21 and a lower enclosure 22 is formed and a supporting base 24 is provided at the central part of the internal space of the enclosure 23. Between the base 24 and upper enclosure 21, a phosphor which converts X rays into visible light and an X-ray image detector 28 having a glass substrate 27 on which a photoelectric conversion element 26 is formed are arranged. The phosphor 25 is press-contacted with the element 26 side surface of the detector 28. The detector 28 is arranged on the base 24 by sticking the whole surface of the substrate 27 to the surface of the base 24. An electric circuit board 30 which processes the electric signal of the element 26 is fixed to the rear surface of a supporting substrate 7 with a plurality of set screws 29. The X-ray image detector 28 and electric circuit board 30 are connected to each other by means of a plurality of flexible circuit boards 33 passed on the external side face of the base 24. The flexible circuit boards 33 are respectively mounted with ICs 34 which are stuck and fixed to the surface of the base 24 with an adhesive.



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